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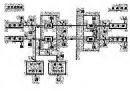
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(54) SYSTEM AND METHOD FOR MONITORING OPTICAL LINK AND FOR SPECIFYING STATE OF THE LINK

(57)Abstract:

PROBLEM TO BE SOLVED: To specify or detect the soundness of an optical link by allowing a 2nd device to monitor the optical link, based on the received optical signal having the first wavelength and then detect the state of the optical link.

SOLUTION: An optical signal having wavelength $\lambda 1$ is produced by a laser site source 120 and supplied to one of inputs of a WDM 124. Another optical signal having wavelength $\lambda 2$ is received from a transmitter 102 and supplied to the other input of the WDM 124. Both optical signals of $\lambda 1$ and $\lambda 2$ are transmitted to an optical link 106 via the WDM 124. A transmitter 114 produces an optical signal having wavelength $\lambda 3$, which is supplied to one of inputs of a WDM 130. The optical signals of $\lambda 1$ and $\lambda 3$



are transmitted to a central station via the WDM 130 and then to a system optical link 108. In